STIC Search Report
EIC 2600

STIC Database Tracking Number: 201573

TO: Jeffrey Smith **Location: Lab 3-Duke St.** **Art Unit : 2624** **Thursday, September 14, 2006** **Case Serial Number: 10677194**	**From: Virgil O. Tyler(ASRC)** **Location: EIC 2600** **KNX-8B68** **Phone: 571-272-8536** **Virgil.Tyler@uspto.gov**

Search Notes

FIRST SEARCH

Dear Examiner Smith,

Attached are the search results (from commercial databases) for your case.

Tags mark the patent/articles, which might be of interest. After you review all records including tagged and untagged records, if you wish to order the complete text of any record, please submit request(s) directly to the STIC-EIC 2600 Email Box or hand carry the request to the front desk of the respective EIC.

Please call if you have any questions or suggestions. I have enclosed a Search Results Feedback Form to facilitate further comments or suggestions. Please take a few minutes to share with us your feedback.

Thanks

Virgil O. Tyler

Virgil O. Tyler,CLIN Assistant

Technical Information Specialist

ASRC Aerospace Corporation

EIC 2600

EIC2600

Fast & Focused Search Feedback Form (Optional)

The search results generated for your *Fast & Focused* search request are attached.
If you have any questions or comments about the scope or the results of the search, please contact *the EIC Searcher* who conducted the search *or contact*:

Pamela.Reynolds@uspto.gov, EIC2600 Team Leader, 2-3505

Voluntary Results Feedback Form

➢ *I am an examiner in Workgroup:* ☐ *Example: 2611*

➢ *Were you satisfied with the coverage and search strategies of this search?* ☐ YES ☐ NO

Why/Why Not?

➢ *Relevant prior art found; Search results used as follows:*

☐ 102 rejection

☐ 103 rejection

☐ Cited as being of interest.

☐ Helped examiner better understand the invention.

☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

☐ Foreign Patent(s)

☐ Non-Patent Literature (journal articles, conference proceedings, etc.)

➢ *Relevant prior art not found:*

☐ Results verified the lack of relevant prior art (helped determine patentability).

☐ Search results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC-EIC2600, KNX 8B59. Thanks.

```
File   2:INSPEC 1898-2006/Sep W1
         (c) 2006 Institution of Electrical Engineers
File   6:NTIS 1964-2006/Sep W1
         (c) 2006 NTIS, Intl Cpyrght All Rights Res
File   8:Ei Compendex(R) 1970-2006/Sep W1
         (c) 2006 Elsevier Eng.  Info. Inc.
File  34:SciSearch(R) Cited Ref Sci 1990-2006/Sep W1
         (c) 2006 The Thomson Corp
File  35:Dissertation Abs Online 1861-2006/Aug
         (c) 2006 ProQuest Info&Learning
File  56:Computer and Information Systems Abstracts 1966-2006/Aug
         (c) 2006 CSA.
File  57:Electronics & Communications Abstracts 1966-2006/Aug
         (c) 2006 CSA.
File  65:Inside Conferences 1993-2006/Sep 14
         (c) 2006 BLDSC all rts. reserv.
File  94:JICST-EPlus 1985-2006/Jun W1
         (c)2006 Japan Science and Tech Corp(JST)
File  95:TEME-Technology & Management 1989-2006/Sep W2
         (c) 2006 FIZ TECHNIK
File  99:Wilson Appl. Sci & Tech Abs 1983-2006/Jul
         (c) 2006 The HW Wilson Co.
File 144:Pascal 1973-2006/Aug W3
         (c) 2006 INIST/CNRS
File 239:Mathsci 1940-2006/Oct
         (c) 2006 American Mathematical Society
File 256:TecInfoSource 82-2006/Dec
         (c) 2006 Info.Sources Inc
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
         (c) 2002 The Gale Group
File 603:Newspaper Abstracts 1984-1988
         (c)2001 ProQuest Info&Learning
File 483:Newspaper Abs Daily 1986-2006/Sep 13
         (c) 2006 ProQuest Info&Learning
File 248:PIRA 1975-2006/Aug W4
         (c) 2006 Pira International

Set     Items   Description
S1      93616   (ASSOCIATE? OR CHANG? OR MODIFY OR MODIFIES OR (UPPER OR L-
             OWER)()CASE??)(3N)(EXT OR EXTENSION OR FILE()(NAME?? OR EXTEN-
             SION) OR JPEG OR JPG OR GIF OR TIF OR LETTER?? OR CHARACTER??
             OR NUMERAL?? OR NUMBER?? OR COMPRESS???)
S2        318   (COD??? OR ENCOD???)(3N)S1
S3       1504   JOINT()PHOTOGRAPHIC()EXPERTS()GROUP OR GRAPHIC()INTERCHANG-
             E()FORMAT OR TAG()IMAGE()FILE()FORMAT
S4          1   AU=(DEBRITO, D? OR DEBRITO D?)
S5     168727   (IMAG? OR PICTURE?? OR PHOTO OR PHOTOS OR PHOTOGRAPH?? OR -
             JPEG OR GIF OR LOGO?? OR ICON?? OR GLYPH?? OR GRAPHIC? OR GRA-
             PHIX OR PICTOGRAM?? OR PICTOGRAPH?? OR SYMBOL?? OR PATTERN??)-
             (3N)(ENCOD? OR CODE?? OR CODING)
S6     437801   (CAMERA?? OR CCD OR (CAPTUR??? OR CHARGE()COUPLED OR IMAG?-
             )()DEVICE??)
S7    2287550   ORIENTAT??? OR ROTAT??? OR LANDSCAPE OR PORTRAIT OR REVERS-
             E?? OR UPSIDE()DOWN OR RIGHT()SIDE()UP OR 90()DEGREES OR CLOC-
             KWISE OR CLOCK()WISE OR COUNTERCLOCKWISE OR COUNTER()CLOCKWISE
S8          7   S2(3N)(S3 OR S5 OR S6)
S9          0   S8(3N)S7
S10         7   RD S8  (unique items)
S11         5   S10 NOT PY>2003
S12         1   S2(3N)S7
S13         0   S4 NOT PAIN
```

11/3,K/1 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC

08781985 INSPEC Abstract Number: B2003-12-6135C-105, C2003-12-5260B-252
Title: Enlargement method for JPEG-coded images with the prediction of high-frequency components
Author(s): Takahashi, Y.; Taguchi, A.
Author Affiliation: Dept. of Electr. & Electron. Eng., Musashi Inst. of Technol., Tokyo, Japan
Journal: Proceedings of the SPIE - The International Society for Optical Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA) vol.5014 p.31-41
Publisher: SPIE-Int. Soc. Opt. Eng,
Publication Date: 2003 Country of Publication: USA
CODEN: PSISDG ISSN: 0277-786X
SICI: 0277-786X(2003)5014L.31:EMJC;1-X
Material Identity Number: C574-2003-197
U.S. Copyright Clearance Center Code: 0277-786X/03/$15.00
Conference Title: Image Processing: Algorithms and Systems II
Conference Sponsor: SPIE; Soc. Imaging Sci. & Technol
Conference Date: 21-23 Jan. 2003 Conference Location: Santa Clara, CA, USA
Language: English
Subfile: B C

...Abstract: blocking effects. Thus, the LP enlarging method is not able to be applied to the **JPEG coded image** . We **modify** the LP enlarging method in order to apply the JPEG coded image. The novel method...

11/3,K/2 (Item 2 from file: 2)
DIALOG(R)File 2:INSPEC

04520510 INSPEC Abstract Number: B90002908
Title: A variable-length-code-selective DPCM coding scheme for image signals
Author(s): Itoh, S.; Monta, H.; Tsuruta, T.; Utsunomiya, T.
Author Affiliation: Fac. of Sci. & Eng., Sci. Univ. of Tokyo, Noda, Japan
Journal: Transactions of the Institute of Electronics, Information and Communication Engineers B-I vol.J72B-I, no.8 p.649-57
Publication Date: Aug. 1989 Country of Publication: Japan
Language: Japanese
Subfile: B

...Abstract: the same group in the three preceding lines. This real-time coding scheme can efficiently **encode** natural **images** at the designated **coding** rate, by **changing** the **number** of quantizer levels in each line.

11/3,K/3 (Item 3 from file: 2)
DIALOG(R)File 2:INSPEC

03477100 INSPEC Abstract Number: C85033822
Title: Machine code plotter (ZX81 utility)
Author(s): Rapley, S.A.
Journal: ZX Computing vol.2, no.2 p.28-9

Publication Date: Aug.-Sept. 1984 Country of Publication: UK
CODEN: ZXCOEI ISSN: 0263-0613
Language: English
Subfile: C

...Abstract: explanation of how they enable you to print designs on the screen. A list of **character codes** and their **associated graphics characters** is given.

11/3,K/4 (Item 4 from file: 2)
DIALOG(R)File 2:INSPEC

03091509 INSPEC Abstract Number: C83031008
Title: Dual-head line printer uses two Z80s
Author(s): Grummett, L.
Author Affiliation: Trilog Inc., Irvine, CA, USA
Journal: Mini-Micro Systems vol.16, no.3 p.197-204
Publication Date: March 1983 Country of Publication: USA
CODEN: MISYDF ISSN: 0364-9342
Language: English
Subfile: C

...Abstract: quality, and a dual-processor architecture that allows I/O and print parameters to be **changed** independently. Near- **letter** -quality printing, bar- **code** printing, labeling and **graphics** are becoming valid line-printer applications, thanks to these mechanical and electronic innovations.

11/3,K/5 (Item 1 from file: 144)
DIALOG(R)File 144:Pascal

16875149 PASCAL No.: 04-0536232
Temporal video segmentation for real-time key frame extraction
2002 IEEE international conference on acoustics, speech, and signal processing : Orlando FL, 13-17 May 2002. Volume I: Speech processing, neural networks for signal processing. Volume II: Signal processing theory and methods, audio and electro-acoustics, multimedia signal processing. Volume III: Signal processing for communications, sensor array and multichannel signal processing, design and implementation of signal processing systems. Volume IV: Image and multidimensional signal processing, industry technology tracks, special sessions
CALIC J; SAV S; IZQUIERDO E; MARLWO S; MURPHY N; O'CONNOR N E
Department of Electronic Engineering, Queen Mary, University of London, United Kingdom; Centre for Digital Video Processing, Dublin City University , United Kingdom
IEEE Signal Processing Society, United States
International conference on acoustics, speech, and signal processing (Orlando FL USA) 2002-05-13
Journal: Proceedings of the ... IEEE International Conference on Acoustics, Speech and Signal Processing, 2002 vol IV, 3632-3635
Language: English

...English Descriptors: processing; Frame based representation; Abstracting ; Information theory; Information retrieval; Information browsing; Image analysis; Content analysis; **Change** detection; Signal **compression** ;

Video **coding** ; Data compression; **Image** compression; Image processing

12/3,K/1 **(Item 1 from file: 144)**
DIALOG(R)File 144:Pascal

07947039 PASCAL No.: 87-0475492
Binary-image-manipulation algorithms in the image view facility
ANDERSON K L; MINTZER F C; GOERTZEL G; MITCHELL J L; PENNINGTON K S; PENNEBAKER W B
IBM, Thomas J. Watson res. cent., Yorktown Heights NY 10598, USA
Journal: IBM journal of research and development, 1987, 31 (1) 16-31
Language: ENGLISH

English Descriptors: Office automation; Image processing; Binary image; Electronic mailing; Display; Algorithm performance; Information **compression** ; **Change** ; Scale; **Rotation** ; Non- **coded** information

```
File 344:Chinese Patents Abs Jan 1985-2006/Jan
         (c) 2006 European Patent Office
File 347:JAPIO Dec 1976-2005/Dec(Updated 060404)
         (c) 2006 JPO & JAPIO
File 350:Derwent WPIX 1963-2006/UD=200658
         (c) 2006 The Thomson Corporation
File 370:Science 1996-1999/Jul W3
         (c) 1999 AAAS

Set     Items   Description
S1      63002   (IMAG? OR PICTURE?? OR PHOTO OR PHOTOS OR PHOTOGRAPH?? OR -
             JPEG OR GIF OR LOGO?? OR ICON?? OR GLYPH?? OR GRAPHIC? OR GRA-
             PHIX OR PICTOGRAM?? OR PICTOGRAPH?? OR SYMBOL?? OR PATTERN??)-
             (3N)(ENCOD? OR CODE?? OR CODING)
S2     463183   (CAMERA?? OR CCD OR (CAPTUR??? OR CHARGE()COUPLED OR IMAG?-
             )()DEVICE??)
S3    2283341   ORIENTAT??? OR ROTAT??? OR LANDSCAPE OR PORTRAIT OR REVERS-
             E?? OR UPSIDE()DOWN OR RIGHT()SIDE()UP OR 90()DEGREES OR CLOC-
             KWISE OR CLOCK()WISE OR COUNTERCLOCKWISE OR COUNTER()CLOCKWISE
S4      62287   (ASSOCIATE? OR CHANG? OR MODIFY OR MODIFIES OR (UPPER OR L-
             OWER)()CASE??)(3N)(EXTENSION OR FILE()(NAME?? OR EXTENSION) OR
              JPEG OR JPG OR GIF OR TIF OR LETTER?? OR COD??? OR ENCOD??? -
             OR CHARACTER?? OR NUMERAL?? OR NUMBER?? OR COMPRESS???)
S5        313   JOINT()PHOTOGRAPHIC()EXPERTS()GROUP OR GRAPHIC()INTERCHANG-
             E()FORMAT OR TAG()IMAGE()FILE()FORMAT
S6          5   AU=(DEBRITO, D? OR DEBRITO D?)
S7       4923   (S1 OR S2)(3N)S3
S8          1   S7(3N)S4
S9          1   S7(3N)S5
S10         1   S9 NOT S8
S11        15   S7(S)S4
S12        13   S11 NOT (S6 OR S8 OR S9)
S13         4   S12 NOT (BARREL OR INTELLIGENT OR COPIER OR BAR()CODE OR X-
             ()RAY OR METER)
S14     18540   S4(3N)(ENCOD? OR CODE?? OR CODING)
S15        21   S14(3N)EXTENSION
S16        18   S15 NOT AD=20031001:20060914/PR
S17         2   S16 AND IC=G06K?
S18        16   S16 NOT S17
S19      7590   (EXTENSION OR FILE()(NAME?? OR EXTENSION))(3N)(JPEG OR JPG
             OR GIF OR TIF OR LETTER?? OR COD??? OR ENCOD??? OR CHARACTER??
             OR NUMERAL?? OR NUMBER?? OR COMPRESS??? OR LETTER??)
S20       934   S19(3N)(ENCOD? OR CODE?? OR CODING)
S21         5   S20(3N)S3
S22         0   S21 AND IC=G06K?
S23         2   S21 NOT (NEURAL OR MAP OR RIVETS)
S24        50   (S1 OR S2)(3N)S20
S25         0   S24(3N)S3
S26         0   S24(S)S3
S27         4   S24 AND S3
```

6/3,K/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO

08362027 **Image available**
METHOD AND APPARATUS FOR TRANSFERRING IMAGE ATTRIBUTE

PUB. NO.: 2005-110287 [JP 2005110287 A]
PUBLISHED: April 21, 2005 (20050421)
INVENTOR(s): **DEBRITO DANIEL N**
APPLICANT(s): HEWLETT-PACKARD DEVELOPMENT CO LP
APPL. NO.: 2004-289568 [JP 2004289568]
FILED: October 01, 2004 (20041001)
PRIORITY: 03 677194 [US 2003677194], US (United States of America), October 01, 2003 (20031001)

INVENTOR(s): **DEBRITO DANIEL N**

6/3,K/2 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0015429539 - Drawing available
WPI ACC NO: 2005-778104/200579
XRPX Acc No: N2005-642616
User authorization method for use in computerized system, involves assigning code character to each of password characters at authorization site, where assignment of code characters is frequently changed by authorization site
Patent Assignee: HEWLETT-PACKARD DEV CO LP (HEWP)
Inventor: **DEBRITO D N**
Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20050246764	A1	20051103	US 2004836726	A	20040430	200579 B

Priority Applications (no., kind, date): US 2004836726 A 20040430

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20050246764	A1	EN	13	6	

Inventor: **DEBRITO D N**

Original Publication Data by Authority

Inventor name & address:
Debrito, Daniel N ...

6/3,K/3 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0015005475 - Drawing available
WPI ACC NO: 2005-353380/200536
XRPX Acc No: N2005-288445
Digital image attributes e.g. image orientation, conveying method, involves

encoding orientation of digital imaging device using case of letters in extension of file name associated with digital image by module encode attributes
Patent Assignee: DEBRITO D N (DEBR-I); HEWLETT-PACKARD DEV CO LP (HEWP)
Inventor: **DEBRITO D N**
Patent Family (2 patents, 2 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
US 20050074170	A1	20050407	US 2003677194	A	20031001	200536	B
JP 2005110287	A	20050421	JP 2004289568	A	20041001	200536	E

Priority Applications (no., kind, date): US 2003677194 A 20031001

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20050074170	A1	EN	13	7	
JP 2005110287	A	JA	9		

Inventor: **DEBRITO D N**

Original Publication Data by Authority

Inventor name & address:
DEBRITO DANIEL N ...

... **Debrito, Daniel N**

6/3,K/4 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 The Thomson Corporation. All rts. reserv.

0005307834 - Drawing available
WPI ACC NO: 1990-304754/199040
XRPX Acc No: N1990-234243
Queued serial peripheral interface for data processing - many serial transfers are written in memory by controlling device together with command and control information
Patent Assignee: MOTOROLA INC (MOTI)
Inventor: **DEBRITO D N** ; GROVES S E; HEENE M R; HILL S C; JELEMENSKY J
Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
US 4958277	A	19900918	US 198777469	A	19870724	199040	B
			US 1989342651	A	19890421		

Priority Applications (no., kind, date): US 1989342651 A 19890421

Inventor: **DEBRITO D N ...**

Original Publication Data by Authority

Inventor name & address:
... **DeBrito, Daniel N**

6/3,K/5 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 The Thomson Corporation. All rts. reserv.

0005076052 - Drawing available
WPI ACC NO: 1990-060301/199009
Timer channel with match recognition features for computer timer - has sixteen-channel subsystem with dedicated service processor to disable match recognition latch of channel being serviced
Patent Assignee: DELCO ELECTRONICS CORP (DELC-N); MOTOROLA INC (MOTI)
Inventor: **DEBRITO D N** ; GOLER V B; MILLER G L; NEMIROVSKY M
Patent Family (5 patents, 5 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
EP 355465	A	19900228	EP 1989113867	A	19890727	199009	B
US 5042005	A	19910820	US 1988234111	A	19880819	199136	E
EP 355465	B1	19941026	EP 1989113867	A	19890727	199441	E
DE 68919018	E	19941201	DE 68919018	A	19890727	199502	E
			EP 1989113867	A	19890727		
KR 199605388	B1	19960424	KR 198911623	A	19890816	199915	E

Priority Applications (no., kind, date): US 1988234111 A 19880819

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 355465	A	EN	24	5	
Regional Designated States,Original: DE FR GB IT					
EP 355465	B1	EN	27	5	
Regional Designated States,Original: DE FR GB IT					
DE 68919018	E	DE			Application EP 1989113867 Based on OPI patent EP 355465

Inventor: **DEBRITO D N** ...

Original Publication Data by Authority

Inventor name & address:
... **DEBRITO D N** ...

... **Debrito, Daniel N., 4014 Northwest Witham Hill Drive Apt No.85, Corvallis Oregon 97330, US** ...

... **Debrito, Daniel N., 4014 Northwest Witham Hill Drive Apt No.85, Corvallis Oregon 97330, US** ...

8/3,K/1 **(Item 1 from file: 350)**
DIALOG(R)File 350:Derwent WPIX

0012749833 - Drawing available
WPI ACC NO: 2002-602960/200265
XRPX Acc No: N2002-478089
Combined control type electrical component has operation knob that changes rotation **direction of** encoder **and detection** pattern **is distributed on** encoder **axially corresponding to switch elements**
Patent Assignee: ALPS ELECTRIC CO LTD (ALPS)
Inventor: HONMA S; OBA K
Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
JP 2002170461	A	20020614	JP 2000363170	A	20001129	200265 B

Priority Applications (no., kind, date): JP 2000363170 A 20001129

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
JP 2002170461	A	JA	8	14	

Combined control type electrical component has operation knob that changes rotation **direction of** encoder **and detection** pattern **is distributed on** encoder **axially corresponding to switch elements**

10/3,K/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO

07805036 **Image available**
ENCODER, DATA CONVERSION APPARATUS, ENCODING PROGRAM AND DATA CONVERSION PROGRAM

PUB. NO.: 2003-299083 [JP 2003299083 A]
PUBLISHED: October 17, 2003 (20031017)
INVENTOR(s): TAKAHASHI KENICHI
OZAWA KAITAKU
APPLICANT(s): MINOLTA CO LTD
APPL. NO.: 2002-095940 [JP 200295940]
FILED: March 29, 2002 (20020329)

ABSTRACT

... of an image in a short period of time by simplifying processing of a JPEG (**joint photographic experts group**) **encoder** for performing **rotation** processing of an image.

SOLUTION: When an input image data are subjected to rotation processing...

13/3,K/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO

02785276 **Image available**
ENCODING SYSTEM

PUB. NO.: 01-082876 [JP 1082876 A]
PUBLISHED: March 28, 1989 (19890328)
INVENTOR(s): FUNADA MASAHIRO
SUZUKI YOSHIYUKI
APPLICANT(s): CANON INC [000100] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 62-241586 [JP 87241586]
FILED: September 25, 1987 (19870925)
JOURNAL: Section: E, Section No. 788, Vol. 13, No. 312, Pg. 15, July 17, 1989 (19890717)

ABSTRACT

... To execute encoding whose compression efficiency is satisfactory by constituting the titled system of a **code** showing a **pattern** and a **code** for showing a **rotation** of its pattern and its symmetrical state, etc., and also, **changing** the respective **code** lengths in accordance with a state that the pattern can take, and setting them to...

13/3,K/2 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0009052519 - Drawing available
WPI ACC NO: 1998-610760/
XRPX Acc No: N1998-475077
Camera position detector e.g. for production of motion pictures and video sequences - has inertial sensors incorporated into structure of motion picture or video camera to detect its movement along three orthogonal axes, as well as angular rotation about three axes
Patent Assignee: COMMOTION INC (COMM-N)
Inventor: KIVOLOWITZ P
Patent Family (3 patents, 80 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
WO 1998051083	A1	19981112	WO 1998US9284	A	19980508	199851	B
AU 199872919	A	19981127	AU 199872919	A	19980508	199915	E
US 5881321	A	19990309	US 1997853871	A	19970509	199917	E

Priority Applications (no., kind, date): US 1997853871 A 19970509

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 1998051083	A1	EN	26	3	

National Designated States,Original: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW
Regional Designated States,Original: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW
AU 199872919 A EN Based on OPI patent WO 1998051083

Alerting Abstract ...A time **code** is **associated** with the position

information provided by the processing unit. A memory unit stores the position...

13/3,K/3 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0009028846 - Drawing available
WPI ACC NO: 1998-586068/199850
Related WPI Acc No: 2000-207939
XRPX Acc No: N1998-456912
Object tracking using TV camera - by sequentially classifying detected changes in detected objects into number of set state changes based on set rules
Patent Assignee: HITACHI DENSHI KK (HITN); HITACHI DENSHI LTD (HITN); KOKUSAI DENKI KK (KOKZ)
Inventor: ENDO M; ITO W; OKADA T; UEDA H
Patent Family (5 patents, 27 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
EP 878965	A2	19981118	EP 1998108707	A	19980513	199850	B
JP 11032325	A	19990202	JP 1998130540	A	19980513	199915	E
JP 11069342	A	19990309	JP 1997226153	A	19970822	199920	E
US 6404455	B1	20020611	US 199878521	A	19980514	200244	E
JP 3657116	B2	20050608	JP 1998130540	A	19980513	200538	E

Priority Applications (no., kind, date): JP 1997124329 A 19970514; JP 1997226153 A 19970822

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 878965	A2	EN	39	26	
Regional Designated States,Original: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI					
JP 11032325	A	JA	14		
JP 11069342	A	JA	9		
JP 3657116	B2	JA	18		Previously issued patent JP 11032325

Original Publication Data by Authority

Original Abstracts:
...and a reference background video signal, and a change of a detecting state from the **change** of the **numbers** of objects detected in the continuous input video signal.

13/3,K/4 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0008991705 - Drawing available
WPI ACC NO: 1998-546857/199847
XRPX Acc No: N1998-426087
Portable information processor e.g. electronic camera - includes display modification unit to change contents of information displayed by display unit

Patent Assignee: NIKON CORP (NIKR)
Inventor: EJIMA S; OHMURA A; OMURA A

Patent Family (2 patents, 2 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
JP 10240436	A	19980911	JP 1997104169	A	19970422	199847 B
US 20020109782	A1	20020815	US 199741718	P	19970327	200256 E
			US 1997972678	A	19971118	
			US 200260315	A	20020201	

Priority Applications (no., kind, date): JP 1997104169 A 19970422; JP 1996347120 A 19961226

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
JP 10240436	A	JA	23	22	
US 20020109782	A1	EN			Related to Provisional US 199741718 Continuation of application US 1997972678

Original Publication Data by Authority

Original Abstracts:

...on the screen of a LCD. Alternatively, the displayed image could have its magnification level **changed** . A **number** of different techniques and structures are provided to detect various movements of the electronic

S17 2 S16 AND IC=G06K?
? t/3,k/all

17/3,K/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO

01506943 **Image available**
CONTROLLER OF PRINTER

PUB. NO.: 59-218543 [JP 59218543 A]
PUBLISHED: December 08, 1984 (19841208)
INVENTOR(s): ISHIKAWA TAKAO
APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 58-093023 [JP 8393023]
FILED: May 26, 1983 (19830526)
JOURNAL: Section: P, Section No. 350, Vol. 09, No. 90, Pg. 106, April 19, 1985 (19850419)

INTL CLASS: G06F-003/12; **G06K-015/00** ; B41J-005/30

ABSTRACT

... of connection or the range of interchangeability for a printer controller by transmitting automatically a **changing** instruction for **extension** control **code** to the printer side in case the mutual combination is changed between a host device...

17/3,K/2 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0008018013 - Drawing available
WPI ACC NO: 1997-111225/199711
XRPX Acc No: N1997-092026
Read write facility for smart data cards - allows user to enter password that allows period of card validity to be changed
Patent Assignee: BAYER AG (FARB)
Inventor: GEORG H; HARTMANN G; HORSTER P; WEIKERT G
Patent Family (15 patents, 28 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
EP 757337	A2	19970205	EP 1996111749	A	19960722	199711	B
DE 19528297	A1	19970206	DE 19528297	A	19950802	199711	E
AU 199660794	A	19970206	AU 199660794	A	19960729	199714	E
NO 199603219	A	19970203	NO 19963219	A	19960801	199715	E
CA 2182346	A	19970203	CA 2182346	A	19960730	199723	E
ZA 199606528	A	19970430	ZA 19966528	A	19960801	199723	E
JP 9190510	A	19970722	JP 1996214125	A	19960726	199739	E
KR 1997012221	A	19970329	KR 199632153	A	19960801	199815	E
MX 199603132	A1	19970701	MX 19963132	A	19960801	199827	E
TW 334547	A	19980621	TW 1996109199	A	19960729	199845	E
SG 52828	A1	19980928	SG 199610374	A	19960730	199904	E
AU 716433	B	20000224	AU 199660794	A	19960729	200020	E
US 6244506	B1	20010612	US 1996690442	A	19960726	200135	E
MX 209490	B	20020806	MX 19963132	A	19960801	200367	E
CN 1155714	A	19970730	CN 1996111815	A	19960802	200375	E

Priority Applications (no., kind, date): DE 19528297 A 19950802

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 757337	A2	DE	7	3	
Regional Designated States,Original: AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE					
DE 19528297	A1	DE	7	3	
CA 2182346	A	EN			
ZA 199606528	A	EN	14		
JP 9190510	A	JA	6		
TW 334547	A	ZH			
SG 52828	A1	EN			
AU 716433	B	EN			Previously issued patent AU 9660794

Class Codes

...International Classification (Main): **G06K** , ...

... **G06K-017/00** ...

... **G06K-019/06** ...

... **G06K-019/07** ...

... **G06K-019/073** ...

... **G06K-005/00** ...

... **G06K-009/62**
... (Additional/Secondary): **G06K-019/10** ...

... G06K-007/00

Original Publication Data by Authority

Claims:

...at least one device for reading and the at least one device for writing receives **from a** user a personal **identification** number associated with the individualizing code of the at least one data memory card to...

...one of the at least one device for reading and the at least one device **for** writing **receives** from a user **an** extension password associated with the individualizing code of the at least one data memory card...

18/3,K/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO

08044953 **Image available**
INFORMATION PROCESSOR AND FUNCTION ALLOCATION METHOD FOR KEY BUTTON USED FOR INFORMATION PROCESSOR

PUB. NO.: 2004-157712 [JP 2004157712 A]
PUBLISHED: June 03, 2004 (20040603)
INVENTOR(s): KOJO AKIHIRO
APPLICANT(s): TOSHIBA CORP
APPL. NO.: 2002-322091 [JP 2002322091]
FILED: November 06, 2002 (20021106)

ABSTRACT

...CPU 45 outputs a key code change command to a KBC 42 (step S102) to **change** key **codes** of **extension** keys 46. When a button of an extension key 46a or 46c is depressed during...

18/3,K/2 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO

05704928 **Image available**
ACCUMULATOR

PUB. NO.: 09-319728 [JP 9319728 A]
PUBLISHED: December 12, 1997 (19971212)
INVENTOR(s): KONNO YOSHIYUKI
APPLICANT(s): KOKUSAI ELECTRIC CO LTD [000112] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 08-140173 [JP 96140173]
FILED: June 03, 1996 (19960603)

ABSTRACT

...power consumption of an accumulator by reducing the 1 to 0 or 0 to 1 **change** of a **code** bit and an **extension** code bit...

18/3,K/3 (Item 3 from file: 347)
DIALOG(R)File 347:JAPIO

03983367 **Image available**
IMAGE STORING RETRIEVING DEVICE

PUB. NO.: 04-348467 [JP 4348467 A]
PUBLISHED: December 03, 1992 (19921203)
INVENTOR(s): ISHIDA MASARU
APPLICANT(s): TOSHIBA SOFTWARE ENG KK [000000] (A Japanese Company or Corporation), JP (Japan)
TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 03-031623 [JP 9131623]
FILED: January 31, 1991 (19910131)
JOURNAL: Section: P, Section No. 1526, Vol. 17, No. 210, Pg. 41, April 23, 1993 (19930423)

ABSTRACT

... when the key length after the change is longer than the key length before the **change** , the **extension** **code** is inputted in the rear direction or on the way from the key displaying. When...

18/3,K/4 (Item 4 from file: 347)
DIALOG(R)File 347:JAPIO

02507213 **Image available**
CONTROL FACILITIES FOR BRANCH RUNNING OF TRAVELING VEHICLE

PUB. NO.: 63-124113 [JP 63124113 A]
PUBLISHED: May 27, 1988 (19880527)
INVENTOR(s): MIFUNE AKIRA
APPLICANT(s): DAIFUKU CO LTD [351877] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 61-270393 [JP 86270393]
FILED: November 13, 1986 (19861113)
JOURNAL: Section: P, Section No. 768, Vol. 12, No. 377, Pg. 149, October 07, 1988 (19881007)

ABSTRACT

PURPOSE: To flexibly **code** with **extension** and **changes** of the running routes and stopping positions of a traveling vehicle by using a memory...

18/3,K/5 (Item 5 from file: 347)
DIALOG(R)File 347:JAPIO

01007034 **Image available**
KEYBOARD

PUB. NO.: 57-157334 [JP 57157334 A]
PUBLISHED: September 28, 1982 (19820928)
INVENTOR(s): FUJIMAGARI HIDEYOSHI
APPLICANT(s): MITSUBISHI ELECTRIC CORP [000601] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 56-042731 [JP 8142731]
FILED: March 24, 1981 (19810324)
JOURNAL: Section: P, Section No. 164, Vol. 06, No. 262, Pg. 106, December 21, 1982 (19821221)

ABSTRACT

PURPOSE: To make the **change** and **extension** in a generated **code** easy, by providing a display function possible for rewrite with keys generating information codes such...

18/3,K/6 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0014475780 - Drawing available
WPI ACC NO: 2004-667408/
XRPX Acc No: N2004-528613
Entities customization method for computer software systems, involves automatically instantiating base extension entity, when base entity is instantiated before receiving customization value

Patent Assignee: MICROSOFT CORP (MICT)
Inventor: BUSCH D E; MOREL M J; MORTENSEN D R; MORTENSEN R W; PLAISTED P E
Patent Family (2 patents, 2 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
US 20040177339	A1	20040909	US 2003383936	A	20030307	200465	B
JP 2004272911	A	20040930	JP 200464565	A	20040308	200465	E

Priority Applications (no., kind, date): US 2003383936 A 20030307

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20040177339	A1	EN	26	10	
JP 2004272911	A	JA	25		

Original Publication Data by Authority

Original Abstracts:
...facilitates customization of fields in objects in a software system without requiring modification of source **code** . An **extension** entity is **associated** with entities to be customized. The extension entity holds customization properties to customize the entities...

18/3,K/7 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0013997053 - Drawing available
WPI ACC NO: 2004-178223/
XRPX Acc No: N2004-141609
Database designing method in software business, involves creating and storing domain, values for domain, virtual attributes and rules in different relational database tables
Patent Assignee: DULIBA K A (DULI-I)
Inventor: DORSEY P R; DULIBA K A
Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
US 6684216	B1	20040127	US 1999156561	P	19990929	200417	B
			US 2000668136	A	20000925		

Priority Applications (no., kind, date): US 1999156561 P 19990929; US 2000668136 A 20000925

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 6684216	B1	EN	46	12	Related to Provisional US 1999156561

...list of valid values for domain in different database tables. The virtual attribute specifying its **code** , rules **associated** with customization and **extension** of database and function specifying syntax are created and stored in different relational database tables.

18/3,K/8 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0013938150 - Drawing available

WPI ACC NO: 2004-118356/
XRPX Acc No: N2004-094542
Lempel Ziv Welch data compressor used in image communication, has AND-gates with prefix input code and character input to which input string having prefix code and extension character are input using matrix switches
Patent Assignee: UNISYS CORP (BURS)
Inventor: COOPER A B
Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 6674374	B1	20040106	US 2003351210	A	20030125	200412 B

Priority Applications (no., kind, date): US 2003351210 A 20030125

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 6674374	B1	EN	16	7	

Original Publication Data by Authority

Original Abstracts:
...of codes to be assigned to strings. Each string comprises a prefix string, having an **associated** prefix **code** , and an **extension** character. An AND-gate has a prefix code input and a character input for enabling...

18/3,K/9 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0013658674 - Drawing available
WPI ACC NO: 2003-754858/
XRPX Acc No: N2003-604815
Data compression method for compressing data character of alphabets, involves searching exact match for input stream by comparing input stream with string having associated codes stored in prefix table
Patent Assignee: UNISYS CORP (BURS)
Inventor: COOPER A B
Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 6628211	B1	20030930	US 2002101046	A	20020319	200371 B

Priority Applications (no., kind, date): US 2002101046 A 20020319

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 6628211	B1	EN	17	7	

...NOVELTY - A string of data characters having a prefix string followed by an **extension character** and having **associated** respective **codes** , is stored in a prefix table. An input stream is searched by comparing with stored string in prefix table to determine exact match and outputting output stream of **compressed codes associated** with exact match. An extended string associated with exact match code is stored in the...

18/3,K/10 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0013193042 - Drawing available
WPI ACC NO: 2003-276728/200327
XRPX Acc No: N2003-219955
Voice CODEC designating system for IP telephone system, realizes change **access** code **transmitted from** extension **telephone set, to register designated voice CODEC into voice converter of respective private branch exchange**
Patent Assignee: NEC CORP (NIDE)
Inventor: OTSUKA K
Patent Family (5 patents, 4 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
US 20030016807	A1	20030123	US 2002200482	A	20020723	200327	B
CA 2394413	A1	20030123	CA 2394413	A	20020722	200327	E
JP 2003037683	A	20030207	JP 2001221738	A	20010723	200327	E
AU 2002300232	A1	20030612	AU 2002300232	A	20020723	200455	E
JP 3680772	B2	20050810	JP 2001221738	A	20010723	200554	E

Priority Applications (no., kind, date): JP 2001221738 A 20010723

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20030016807	A1	EN	10	3	
CA 2394413	A1	EN			
JP 2003037683	A	JA	7		
JP 3680772	B2	JA	10		Previously issued patent JP 2003037683

Voice CODEC designating system for IP telephone system, realizes change **access** code **transmitted from** extension **telephone set, to register designated voice CODEC into voice converter of respective private branch exchange**

18/3,K/11 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0012461346 - Drawing available
WPI ACC NO: 2002-407419/200244
XRPX Acc No: N2002-319985
Digital processor correctness verification method involves testing of micro code using hardware emulator according to logic gates to provide TCP/IP connection
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: BOEHM H; BUTTLAR J V; HORSCH A; KAYSER J; KOERNER S; KUENZEL M; VON BUTTLAR J
Patent Family (3 patents, 27 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
EP 1191443	A2	20020327	EP 2001118672	A	20010803	200244	B
US 20020087917	A1	20020704	US 2001960154	A	20010921	200247	E
US 6834359	B2	20041221	US 2001960154	A	20010921	200501	E

Priority Applications (no., kind, date): EP 2000120734 A 20000922

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 1191443	A2	EN	8	2	

Regional Designated States,Original: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

Alerting Abstract ...stage that is before the actual manufacture of the hardware. So, developing and testing necessary **code changes** or **extension** can be done straight away...

18/3,K/12 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX

0011191215 - Drawing available
WPI ACC NO: 2002-129399/
XRPX Acc No: N2002-097568
Data compression method involves determining longest match between input stream and stored strings by matching data characters of input stream and stored strings until mismatch occurs
Patent Assignee: UNISYS CORP (BURS)
Inventor: COOPER A B

Patent Family (2 patents, 22 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
US 6307488	B1	20011023	US 2000564956	A	20000504	200217	B
WO 2001086818	A2	20011115	WO 2001US13729	A	20010430	200217	E

Priority Applications (no., kind, date): US 2000564956 A 20000504

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 6307488	B1	EN	49	20	
WO 2001086818	A2	EN			

National Designated States,Original: CA JP
Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

Original Publication Data by Authority

Original Abstracts:
...similarly configured stored strings until a longest match is determined. Each stored string has a **code associated** therewith and the **code** of the longest match is output by the compressor. An extended string is stored comprising...

...up to a maximum of one less than the predetermined number. In this embodiment, when **extension** of a string for storage would result in the predetermined number of data characters following...

...similarly configured stored strings until a longest match is determined. Each stored string has a **code associated** therewith and the **code** of the longest match is output by the compressor. An extended string is stored comprising...

18/3,K/13 (Item 8 from file: 350)

DIALOG(R)File 350:Derwent WPIX

0010824342 - Drawing available
WPI ACC NO: 2001-441587/
XRPX Acc No: N2001-326669
System for embedding extension codes in data files for layer use which includes logic for enhancing the application using the file data
Patent Assignee: STAGECAST SOFTWARE INC (STAG-N)
Inventor: NELSON R P; POSEY S; SMITH D C
Patent Family (2 patents, 81 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
WO 2001042910	A1	20010614	WO 2000US33448	A	20001207	200147	B
AU 200119574	A	20010618	AU 200119574	A	20001207	200161	E

Priority Applications (no., kind, date): US 1999457934 A 19991208

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 2001042910	A1	EN	28	10	

National Designated States,Original: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW
Regional Designated States,Original: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200119574	A	EN		Based on OPI patent	WO 2001042910

Alerting Abstract DESCRIPTION - INDEPENDENT CLAIMS are included for method for using and storing **extension codes associated** with a first application, for a computer program and for a system for transferring extension...

Original Publication Data by Authority

Original Abstracts:
...a data file (202). A data file is used on a first application that has **extension code associated** therewith. The **extension code** includes logic for enhancing the application. At least a portion of the extension code is...

18/3,K/14 (Item 9 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0010318781 - Drawing available
WPI ACC NO: 2000-633282/
XRPX Acc No: N2000-469301
Supervision and control system of railway electric installation, detects change in operational state of feeder systems by which extension code is searched from table for updating extension conditional information
Patent Assignee: MEIDENSHA CORP (MEID)
Inventor: INOUE H
Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
JP 2000259231	A	20000922	JP 199964404	A	19990311	200061	B

Priority Applications (no., kind, date): JP 199964404 A 19990311

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
JP 2000259231	A	JA	7	9	

...sensed in any feeder system, operation conditional information of all other systems is acquired and **extension code** for state **changed** feeder system is searched and extension connection with one of suitable substation is performed to...

18/3,K/15 (Item 10 from file: 350)

DIALOG(R)File 350:Derwent WPIX

0002194034
WPI ACC NO: 1981-A2273D/
Central processing unit for data processing system - has programmable optional auto-incrementing of memory pointer registers without requiring instruction operation code
Patent Assignee: BELL TELEPHONE LAB INC (AMTT)
Inventor: BLAHUT D E; COPP D H; STANZIONE D C
Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 4240142	A	19801216	US 1978974361	A	19781229	198102 B
			US 1978974361	A	19781229	

Priority Applications (no., kind, date): US 1978974361 A 19781229

Alerting Abstract ...The contents of the op- **code extension** register can be **changed** by means of an instruction for transferring a new code to the OER.

Original Publication Data by Authority

Original Abstracts:
...in the OER corresponding to the particular memory pointer register. The contents of the op- **code extension** register can be **changed** by means of an instruction for transferring a new code to OER.

18/3,K/16 (Item 11 from file: 350)

DIALOG(R)File 350:Derwent WPIX

0002027220
WPI ACC NO: 1980-F9547C/198028
Computer CPU with extended operating code - gives enlarged field of instructions for small word length microprocessors with cyclic operating stages
Patent Assignee: WESTERN ELECTRIC CO INC (AMTT)
Inventor: HUANG V K; RUTH R L
Patent Family (13 patents, 11 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
BE 880888	A	19800416				198028 B

WO 1980001423	A	19800710	WO 1979US1045	A	19791206	198030	E
FR 2445555	A	19800829				198042	E
SE 198005989	A	19801020				198045	E
NL 197920197	A	19801128				198050	E
GB 2050659	A	19810107				198102	E
DE 2953440	A	19810409				198130	E
US 4293907	A	19811006	US 1978974426	A	19781229	198143	E
JP 55501075	A	19801203				198149	E
CA 1123959	A	19820518				198223	E
GB 2050659	B	19830518				198320	E
CH 650600	A	19850731				198534	E
IT 1127771	B	19860528				198741	E

Priority Applications (no., kind, date): US 1978974426 A 19781229

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
BE 880888	A	FR			
WO 1980001423	A	EN			
National Designated States,Original: CH DE GB JP NL SE					
SE 198005989	A	SV			
CA 1123959	A	EN			
CH 650600	A	DE			

Alerting Abstract ...operation code part, which is stored on each instruction cycle, and an address part. The **extension code** register is only **changed** when a word is called up by the c.p.u. The system offers a

23/3,K/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO

05436594 **Image available**
TRAVELING OBJECT FACSIMILE COMMUNICATION SYSTEM AND MESSAGE CONVERTING DEVICE

PUB. NO.: 09-051394 [JP 9051394 A]
PUBLISHED: February 18, 1997 (19970218)
INVENTOR(s): NAKAI JUNJI
IWABORI TADAO
KIHARA YASUSHI
APPLICANT(s): OKI ELECTRIC IND CO LTD [000029] (A Japanese Company or Corporation), JP (Japan)
CENTRAL JAPAN RAILWAY CO [491659] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 07-201958 [JP 95201958]
FILED: August 08, 1995 (19950808)

ABSTRACT

... of through radio wave transmission route. On the contrary, the converting device 12 executes data **extension** and **code reverse** conversion, etc., as against the error resistant message received with a card public telephone set...

23/3,K/2 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0005076416 - Drawing available
WPI ACC NO: 1990-060709/199009
Encoding-decoding system for 4-11 codes in optical recording-reading - encodes 8-bit binary code to 11-bit channel code by adding 3-bit extension parity code regulating ones in channel codes at 4
Patent Assignee: MATSUSHITA ELEC CORP AMERICA (MATU); MATSUSHITA ELEC IND CO LTD (MATU); MATSUSHITA ELEC IND KK (MATU)
Inventor: ISHIBASHI H; TANAKA S
Patent Family (7 patents, 5 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
EP 355999	A	19900228	EP 1989307403	A	19890720	199009	B
JP 2033221	A	19900202	JP 1988184308	A	19880722	199011	E
US 5008669	A	19910416	US 1989383153	A	19890719	199118	E
EP 355999	A3	19920122	EP 1989307403	A	19890720	199322	E
KR 199303259	B1	19930424	KR 198910408	A	19890722	199421	E
EP 355999	B1	19960306	EP 1989307403	A	19890720	199614	E
DE 68925845	E	19960411	DE 68925845	A	19890720	199620	E
			EP 1989307403	A	19890720		

Priority Applications (no., kind, date): JP 1988184308 A 19880722

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 355999	A	EN	18	7	
Regional Designated States,Original: DE FR GB NL					
EP 355999	A3	EN			
EP 355999	B1	EN	20	7	
Regional Designated States,Original: DE FR GB NL					
DE 68925845	E	DE			Application EP 1989307403

Based on OPI patent EP 355999

Alerting Abstract ...are three methods of encoding depending on the number, j, of bits in the binary **code** . First the **extension code** contains (i-j) bits. Second, if j is larger than i, all bits are **reversed** before adding the **extension** . Third, for those **codes** left, they are converted by table lookup...

Original Publication Data by Authority

Claims:

...are three methods of encoding depending on the number, j, of bits in the binary **code** . First the **extension code** contains (i-j) bits. Second, if j is larger than i, all bits are **reversed** before adding the **extension** . Third, for those **codes** left, they are converted by table lookup...

...are three methods of encoding depending on the number, j, of bits in the binary **code** . First the **extension code** contains (i-j) bits. Second, if j is larger than i, all bits are **reversed** before adding the **extension** . Third, for those **codes** left, they are converted by table lookup...

27/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0011121409
WPI ACC NO: 2002-057692/
XRAM Acc No: C2002-016649
XRPX Acc No: N2002-042556
A string match test method and tool with moire
Patent Assignee: KAGAKU GIJUTSU SHINKO JIGYODAN (KAGA-N)
Inventor: TANIDA
Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
JP 2001211884	A	20010807	JP 200023612	A	20000201	200208 B

Priority Applications (no., kind, date): JP 200023612 A 20000201

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
JP 2001211884	A	JA	10	12	

Alerting Abstract ...conversion of 1st and 2nd string data to spatial **code patterns** ; **extension** of the spatial **code patterns** to a predetermined length or longer in vertical direction; image treatment of the spatial code...

Extension Abstract
...string datum with a pattern conversion apparatus, image treatment of the 2nd spatial code patterns, **rotation** and overlapping of 2 patterns, moire formation of the overlapped patterns, and detection and assessment...

27/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0010529452 - Drawing available
WPI ACC NO: 2001-131803/
XRPX Acc No: N2001-097923
Activity estimation apparatus for moving picture expert group based image encoder, outputs final activity obtained by reconfiguring one of extracted activity vector output based on picture type of transmitted image
Patent Assignee: HYUNDAI ELECTRONICS IND CO LTD (HYUN-N); KOREA BROADCASTING SYSTEM CORP (KOBR-N); KOREA COMMUNICATIONS CO LTD (KOCO-N)
Inventor: KIM G H; KIM G J; KIN K
Patent Family (2 patents, 2 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
JP 2000350218	A	20001215	JP 2000132486	A	20000501	200114 B
KR 2000067688	A	20001125	KR 199915697	A	19990430	200130 E

Priority Applications (no., kind, date): KR 199915697 A 19990430

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
JP 2000350218	A	JA	9	6	
KR 2000067688	A	KO		5	

Alerting Abstract ...NOVELTY - The estimation units (120,140) extract

forward direction and **reverse** direction activity vectors, based on comparison result of original and decoded images with distinguished picture
...
...USE - For activity estimation range **extension** in **image encoding** system employing moving **picture** expert group (MPEG)1 and MPEG2 techniques
...

27/3,K/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0006728927
WPI ACC NO: 1994-111218/
XRPX Acc No: N1994-087125
Audio and video processor with data compression and video effect functions - has CPU with memory control mechanism, I-O control mechanism, control unit receiving picture, sound and program data from outer memory via interface, and picture data expansion unit
Patent Assignee: HUDSON KK (HUDS-N); HUDSON SOFT CO LTD (HUDS-N); ITAGAKI F (ITAG-I); SEIKO EPSON CORP (SHIH)
Inventor: ITAGAKI F
Patent Family (8 patents, 6 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
EP 590785	A2	19940406	EP 1993306649	A	19930823	199414	B
TW 219397	A	19940121	TW 1993107345	A	19930908	199414	E
CA 2105241	A	19940331	CA 2105241	A	19930831	199424	E
JP 6180753	A	19940628	JP 1992285155	A	19920930	199430	E
EP 590785	A3	19950809	EP 1993306649	A	19930823	199613	E
US 5630105	A	19970513	US 1993112366	A	19930827	199725	E
			US 1995563779	A	19951127		
EP 590785	B1	19990804	EP 1993306649	A	19930823	199935	E
DE 69325867	E	19990909	DE 69325867	A	19930823	199943	E
			EP 1993306649	A	19930823		

Priority Applications (no., kind, date): JP 1992285155 A 19920930

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 590785	A2	EN	84	69	
Regional Designated States,Original: DE FR GB NL					
TW 219397	A	ZH	29	69	
CA 2105241	A	EN			
JP 6180753	A	JA	44	69	
EP 590785	A3	EN			
US 5630105	A	EN	78	69	Continuation of application US 1993112366
EP 590785	B1	EN			
Regional Designated States,Original: DE FR GB NL					
DE 69325867	E	DE			Application EP 1993306649 Based on OPI patent EP 590785

Original Publication Data by Authority

Claims:
...unit; an image data extension unit which includes scale-down data extending means including a **reverse** DCT converter, a **reverse** quantifying system, a Huffman coding and decoding system, and a run-length

coding and decoding...

...an image data extension unit (106) which includes scale-down data extending means including a **reverse** DCT converter, a **reverse** quantizing system, a Huffman coding and decoding system, and a run-length coding and decoding...

...encoder unit, coupled with the video display unit, the control unit, and the image data **extension** unit, for **encoding** each **image** data of the external-block, internal-dot, and external-dot types, respectively;means, coupled with...

27/3,K/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0004302096 - Drawing available
WPI ACC NO: 1988-029829/
Automatic contactless three-dimensional measuring of objects - using swivelable camera **sensors and angular** coders **coping with large** extension
Patent Assignee: MANNESMANN AG (MANS)
Inventor: DEPPE G J; FISTER W; SCHOENARTZ N; SCHONARTZ N
Patent Family (4 patents, 5 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
DE 3624959	A	19880128	DE 3624959	A	19860723	198805	B
EP 256968	A	19880224	EP 1987730044	A	19870421	198808	E
DE 3624959	C	19900405	DE 3624959	A	19860723	199014	E
			DE 3624959	A	19860723		
US 4937766	A	19900626	US 198777418	A	19870723	199028	E

Priority Applications (no., kind, date): DE 3624959 A 19860723

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
DE 3624959	A	DE	5	5	
EP 256968	A	DE			

Regional Designated States,Original: DE FR GB IT

...**using swivelable** camera **sensors and angular** coders **coping with large** extension

Equivalent Alerting Abstract ...object are worked out, from an image delivered from each camera-sensor (1) and with **rotation** of the camera sensors respectively by motors (4) about two axes. A determined characteristic point...

University of Southern Queensland

Faculty of Engineering & Surveying

Video Compression using ITU-T Recommendation H.264

A dissertation submitted by

B. Farmer

in fulfilment of the requirements of

ENG4112 Research Project

towards the degree of

Bachelor of Engineering(Computer Systems)

Submitted: October, 2005

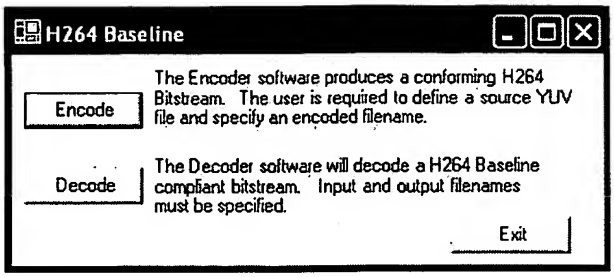


Figure 6.1: Start Screen of H264 Baseline Software

6.3 Encoder Interface

Encode Screen

Figure 6.2 displays a screen shot of the information tab. This highlights to the user that changes effected to the H264 Encoder parameters may affect the fidelity of the decoded video sequence or the encoded file size.

After changes are made to the encoder parameters, the user will be required to select the Apply button in order to allow for the parameters to be written to the encoder.cfg file in the correct sequence. This file is read by the encoder in order to provide the relevant parameters to correctly encode the video sequence. The Apply button will also initiate the encoding process.

The user may also select to cancel their interaction with the encoder.

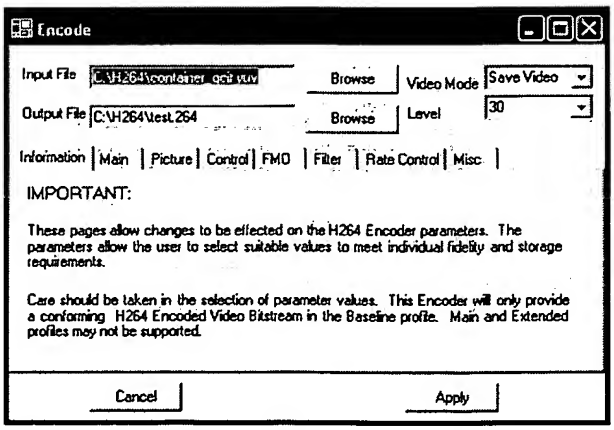


Figure 6.2: Information Screen of H264 Baseline Encode.

I have determined that the parameters at the top the Encode screen are the most important parameters for the encoder and specific file names are required to be changed by the user.

Input File This file should contain the YUV sequence to be encoded.

Output File This file will contain the encoded video sequence.

Video Mode The user may select which bitstream format the output file will employ.

Saved Video If this parameter is selected, the encoded sequence will be in the byte stream form, or as specified by Annex B. This is the default parameter.

Live Video If this parameter is selected, the encoded sequence will be in bit stream format, Good for use for RTP, such as video conferencing.

Level The user may select the required level that the encoder will use. This affects the decoded picture buffer size. There are 15 levels from which the user can choose. Level 30 is the default level.

Main Tab

The main screen provides access to the major video sequence parameters.

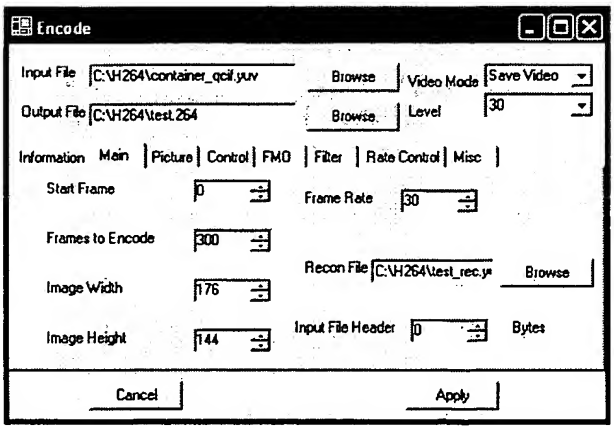


Figure 6.3: Main Screen of H264 Baseline Encode.

Start Frame This parameter allows the user to select from where in the video sequence that they would like to start encoding.

Frames to Encode This parameter allows the user to select the total number of frames that they would like to encode. I have set the number of frames to 50.

Image Width and Image Height These parameters determine the width and height of the image that the user would like to encode. As the width and height is measured in pixels, they must be divisible by 16 in order to conform to the size of macroblocks. The default is set for a QCIF size, 176 × 144 pixels.

Frame Rate This is the number of frames that should be displayed per second when decoded and viewed. I have used a default value of 30 frames per second

Recon File The recon file is a file that should be what is seen at the decoder. The encoder needs to know what the decoder is seeing, and therefore what predictions they will be using for motion compensation.

Input File Header This parameter is the number of bytes of the input file that is for header information. I have allowed a 0 default value.

Picture Tab

Figure 6.4 is a screen shot of the Picture screen of the H.264 Baseline Encode Software.

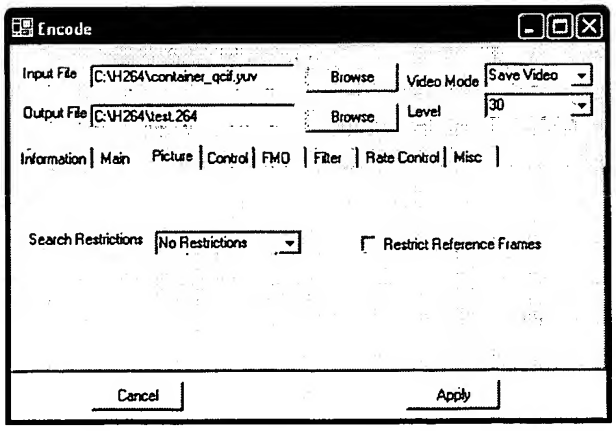


Figure 6.4: Picture Screen of H264 Baseline Encode.

The picture screen consists of only two parameters being search restrictions and reference frames restrictions.

Search restrictions allows 1 of 3 choices of searching for similar frames or blocks for

motion prediction. The search range may be restricted to using only older reference frames, both blocks and reference frames or by allowing no search restrictions to be used. I have set the Search Restrictions parameter to have a default value of No Restrictions.

Restrict Reference Frames when unchecked allows reference frames to be checked for forward prediction. The checkbox's default is to no be selected.

Control Tab

Figure 6.5 is a screen shot of the Control tab of the H.264 Baseline Encode Software. This tab page provides many control parameters that can be employed in the encoding of a video sequence.

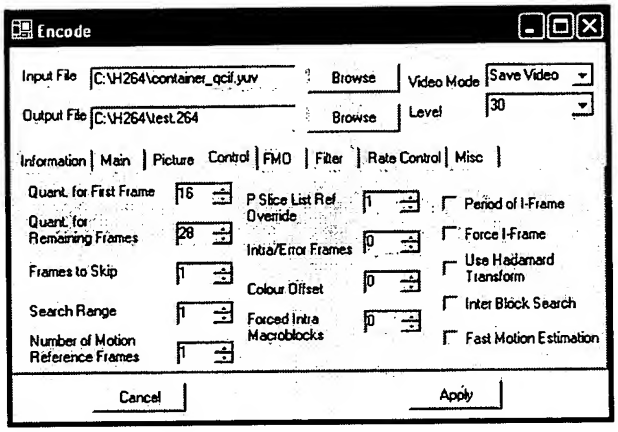


Figure 6.5: Control Tab of H264 Baseline Encode.

Each of the parameters that may be changed by the user listed on the Control Table are discussed below.

Quantisation for First Frame This variable allows the user to define the quantisation parameter that will be used in the encoding of the first frame of the video sequence. I have used a default quantisation parameter of 16.

Quantisation for Remaining Frames This parameter has a default of 28 and is used for quantisation for the remaining frames of the video sequence.

Frames to Skip This parameter allows the user to specify the number of frames to skip in between each frame to be encode. If this has a value of 1, then every second frame of the video sequence will be encoded.

Search Range The search range is the range that will be searched for motion estimation. If this value is greater than 0, then all of the surrounding blocks of a block defined by a motion vector will be searched. If this value is 0, then only the defined block will be looked at. I have allowed all of the surrounding blocks of the motion vector indicated block to be searched as default.

Number of Motion Reference Frames The number of frames allowed must be a value less than 16, and its main stipulation is that the memory requirements of the decoder picture buffer must be capable of allowing that specific number of frames. I have used a default value of 1.

P Slice List Ref Override This value determines the number of P Slices that will be allowed in the reference list and is defaulted to 1.

Intra/Error Frames This parameter is used to provide error robustness to the encoded video sequence. No extra intra blocks or frames are encoded, if this parameter is 0. If the user defines this parameter to be 1, 1 group of blocks per frame will be intra coded. If 2, 1 group of blocks will be intra coded every 2 frames. This parameter is used to prevent past macroblocks errors to be continued to future macroblocks. No extra intra blocks are to be encoded is the default.

Colour Offset This offset must be a value between -51 and 51. This parameter has a default value of 0 and changes will affect how bright the image will be when decoded.

Forced Intra Macroblocks This numerical value is used to define the minimum number of macroblocks that should be intra coded per frame.

Period of I-Frame This checkbox allows the user to define that there should be a minimum of 0 or 1 frames in between each encoded Intra Frames. I have used a default value of 0 frames.

Force I-Frame The user would check this parameter to force intra pictures to be encoded as IDR pictures. An IDR picture forces no frames to be allowed to use

any pictures prior to the IDR for motion compensation. I have left this parameter unchecked as the default setting.

Use Hadamard Transform The user would select to use Hadamard Transform when an additional transform is required.

Inter Block Search This parameter if checked allows all available block sizes to be searched.

Fast Motion Estimation If FME is checked, motion estimation will be conducted on the integer blocks, otherwise a full pel search for motion estimation is allowed. The default setting allows for a full pel search to be allowed.

FMO Tab

Figure 6.6 is a screen shot of the FMO tab of the H.264 Baseline Encode Software. This tab page allows the user to select the slice mode and whether to employ FMO.

There are four different slice modes that may be employed by the encoder. The first slice mode is off and there are therefore no restrictions placed between the macroblocks and the slice. This mode is the default slice mode. Fixed macroblocks is another slice mode, and will allow only a specific number of macroblocks to be used per slice. Fixed rate and Callback only allow slices to contain a specific maximum number of bits. Should this number be exceeded, macroblocks will be removed from the slice.

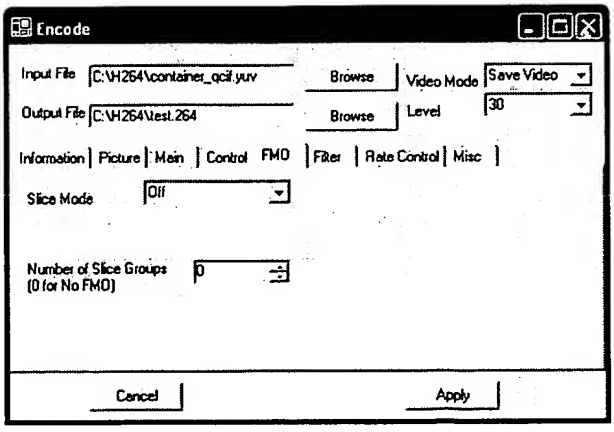


Figure 6.6: FMO Tab of H264 Baseline Encode - No FMO.

Figure 6.6 is a screen shot used where FMO is not employed. The number of slice groups allowed to reproduce the frame is 1. The macroblocks within the slice are processed in raster scan order. This tab layout shows the default values used by the software. When FMO is not employed the macroblocks are all included in one slice group and processed in raster scan order.

The six defined macroblock mapping methods are shown in Figure ??. The explicit map that is used to map individual macroblocks to slices should be contained in a text file which will be referred to as the Slice Group File Name.

Interleave Slice Map

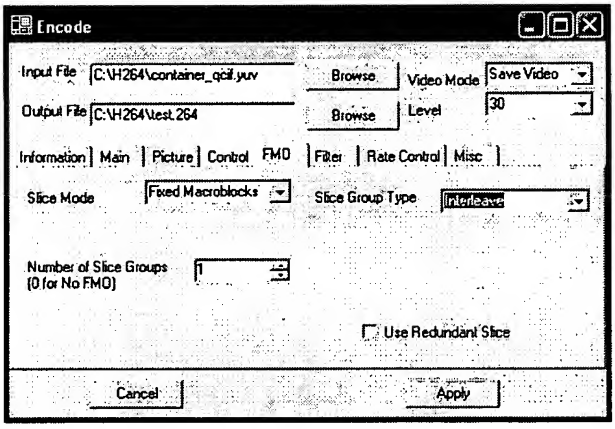


Figure 6.7: FMO Tab of H264 Baseline Encode - Interleave Slice Map.

Figure 6.7 is a screen shot used where FMO is employed with an interleave map for ordering of the macroblocks within the slice. Each macroblock row is allocated to consecutive slice groups.

Dispersed Slice Map

Figure 6.8 is a screen shot used where FMO is employed with a dispersed slice map. Each consecutive macroblock will be allocated in turn to consecutive slice groups.

Foreground with left-over Slice Map

Figure 6.9 is a screen shot of where the slice group map is foreground slice groups followed by a left over slice. A slice group map configuration file is required to specify

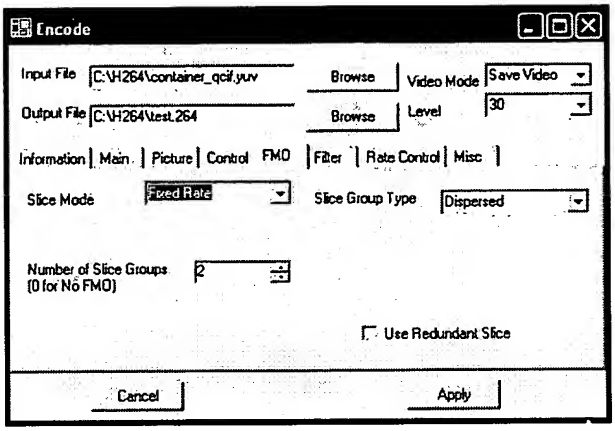


Figure 6.8: FMO Tab of H264 Baseline Encode - Dispersed Slice Map.

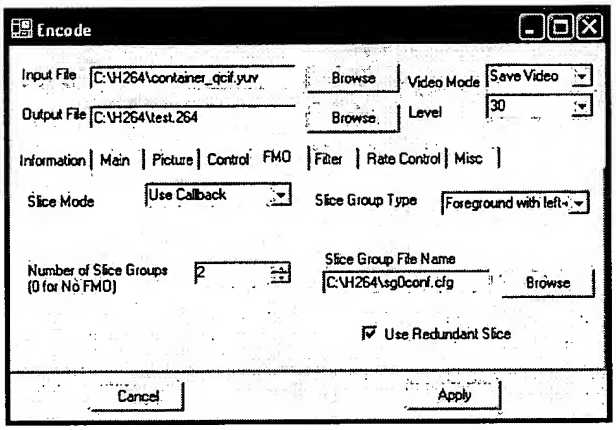


Figure 6.9: FMO Tab of H264 Baseline Encode - Foreground with left-over Slice Map.

the number of macroblocks that should be employed within each slice group.

Box-Out Slice Map

The FMO tab to use for a box-out slice map is shown in Figure 6.10. Box-out macroblock ordering may be conducted either clockwise or counterclockwise. Consecutive macroblocks are allocated to the same slice until a certain number of macroblocks is reached as specified by the user defined slice group change rate parameter.

Raster Scan Slice Map

The raster scan FMO tab is shown in Figure 6.11. Raster scan macroblock ordering is conducted from left to right, top to bottom. Macroblock ordering may also be conducted in reverse raster scan order. Each slice group will contain the number of

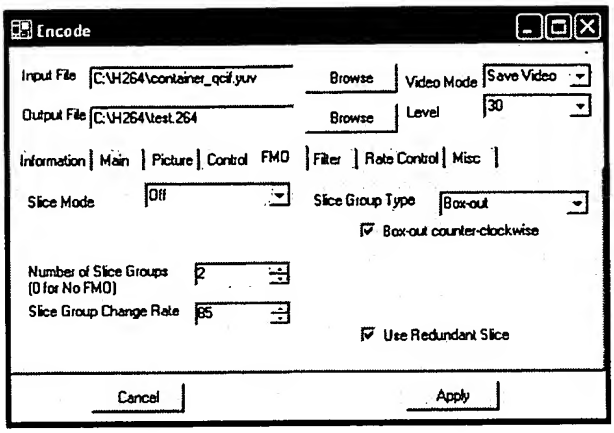


Figure 6.10: FMO Tab of H264 Baseline Encode - Box-out Slice Map.

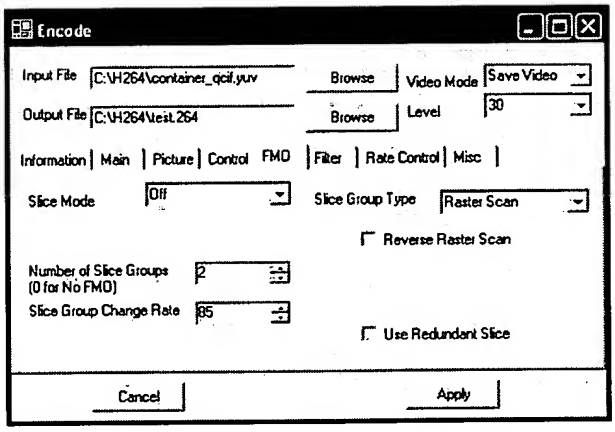


Figure 6.11: FMO Tab of H264 Baseline Encode - Raster Scan Slice Map.

macroblocks specified in the slice group change rate parameter.

Wipe Slice Map

The FMO tab shown in Figure 6.12 is used for wipe right macroblock ordering. The slice group change rate defines the number of macroblocks allocated to each slice group from top to bottom left to right. The macroblock ordering may also be conducted in the reverse order.

Explicit Slice Map

The Explicit slice map used for FMO would be completely user defined, with each individual macroblock being allocated to a specific slice group. This map would be defined in the slice group file determined by the user.

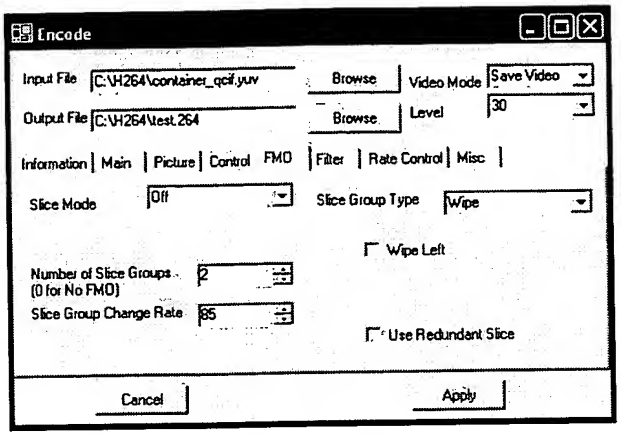


Figure 6.12: FMO Tab of H264 Baseline Encode - Wipe Slice Map.

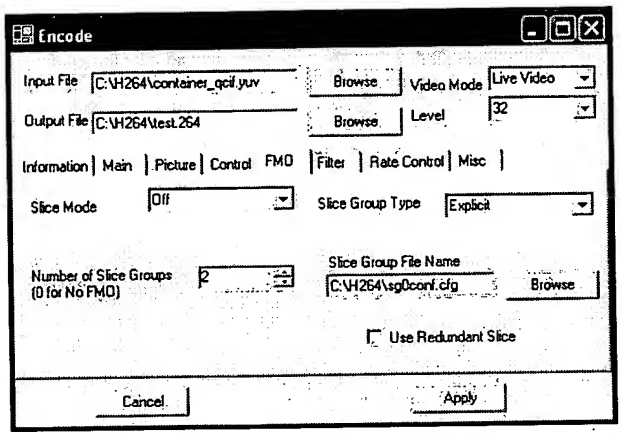


Figure 6.13: FMO Tab of H264 Baseline Encode - Explicit Slice Map.

Filter Tab

Figure 6.14 displays a screen shot of H.264 Baseline Encode Software's Filter tab.

This tab allows the Deblocking Filter to be configured or disabled.

The Alpha and Beta offsets are used in conjunction with the quantisation parameter to define when the deblocking filter will be employed. The filter is employed for small changes and will be switched off if is a significant change in between blocks. Significant changes are expected to be as a result of a change within an image, as opposed to blocking artifacts. The larger the quantisation parameter the more block edges that will be filtered.

An example of disabling the filter completely is shown in Figure 5.3.

7.3.1 Methodology

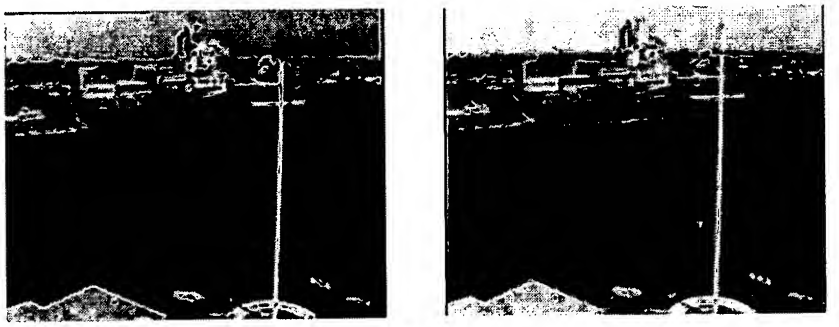
I have encoded the bitstream using the default parameters described in Chapter 6 to produce a H.264 conforming bitstream named test.264.

The H264 file is decoded using optimised H264 Baseline software, and two freely available decoders, being InterVideo's WinDVD Platinum player (2005) and ImToo Software Studio's MPEG Encoder (2005).

7.3.2 Results

Figure 4.2 shows the first frame of the original encoded sequence.

Figure 5.2 shows the first frame of the container_qcif sequence decoded using the H264 Baseline software.



a. Frame 0 decoded using WinDVD b. Frame 0 decoded using ImToo MPEG Encoder

Figure 7.1: a. Decoded Frame using WinDVD Platinum. b. Decoded Frame using ImToo MPEG Encoder.

In order to use the ImToo MPEG Encoder, the file extension was required to be changed to test.h264.

Original Frame The original frame is very blocky for background areas of similar colour. The original frame is not smoothed for consistency, has sharp edges and the contrast is prominent.

Decoded Frame The decoded frame uses a contrast that is quite prominent, however